Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and footpaths at Yelahanka new town 4th Phase 5th phase and Industrial areas in ward no-03 of yelahanka new town sub division (Package No14)

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	Basic rate	105.00							
	Area Weightage 6%	6.30							
	Total	111.30							
		Sqm							
	Yelahanka 4th Phase								
	Indra Cateen rd		1	465.00	0.90		418.50		
	Bhagyalakshmi Bar rd		2	264.00	0.90		475.20		
	Jigyaasa center of music and art rd		2	102.00	0.90		183.60		
	United residents Association upto Kumepu park		2	310.00	1.20		744.00		
	Kitchen 6 rd		1	637.00	0.90		573.30		
							2394.60		
	Deduct 50% missing						1197.30		
							1197.30		
	Yelahanka 5th Phase								
	Bramhaputra Appartment Rd		1	126.00	1.20		151.20		
	Bus stop surrounding Cross rd-1		1	114.00	0.90		102.60		
	Cross rd-2		1	140.00	0.90		126.00		
	Cross rd-3		2	392.00	1.20		940.80		
	Cross rd-4		2	170.00	0.90		306.00		
	Cross rd-5		2	120.00	1.20		288.00		
	Sangmesh Enterprises Xerox rd		2	118.00	1.20		283.20		
							2197.80		
							1318.68		
	Deduct 60% missing						879.12		
							2076.42	111.30	231105.55
2	KSRRB300-1. **Earthwork excavation by manual means for roads, drains & similar works in ordinary** soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(I.NO 19.1,Page no 143 SR 2018-19)								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloading & Lead 8KM	77.48							
	Total	215.28							
		Cum							

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Yelahanka 4th Phase								
For RCC DRAIN								
Indra Cateen rd		1	465.00	1.10	0.90	460.35		
Bhagyalakshmi Bar rd		2	264.00	1.10	0.90	522.72		
Jigyaasa center of music and art rd		2	102.00	1.10	0.90	201.96		
United residents Association upto Kumepu park		2	310.00	1.40	0.90	781.20		
Kitchen 6 rd		1	637.00	1.10	1.00	700.70		
For RCC CULVERT								
Indra Cateen rd		3	6.00	1.40	1.00	25.20		
Bhagyalakshmi Bar rd		9	6.00	1.40	1.00	75.60		
United residents Association upto Kumepu park		7	6.50	1.40	1.00	63.70		
Kitchen 6 rd		10	5.50	1.40	1.00	77.00		
Yelahanka 5th Phase								
Bramhaputra Appartment Rd		1	126.00	1.40	0.90	158.76		
Bus stop surrounding Cross rd-1		1	114.00	1.10	0.90	112.86		
Cross rd-2		2	140.00	1.10	0.90	277.20		
Cross rd-3		2	392.00	1.40	0.90	987.84		
Cross rd-4		2	170.00	1.10	1.00	374.00		
Cross rd-5		2	120.00	1.10	0.90	237.60		
Sangmesh Enterprises Xerox rd		2	118.00	1.40	1.20	396.48		
For RCC CULVERT		5	5.50	1.40	1.00	38.50		
						5491.67		
Deduct 30% Existing Drain Earthwork						1647.50		
						3844.17	**215.28**	**827572.70**

KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 of PWD BCSR 2018-19)

Basic Rate	5115.00							
4.4*55.47	244.07	Above	Rate					
Sub total	5359.07							
6% Area weightage	321.54							
Total	**5680.61**							
	Cum							
For RCC DRAIN								
Yelahanka 4th Phase								
Indra Cateen rd		1	465.00	1.10	0.15	76.73		
Bhagyalakshmi Bar rd		2	264.00	1.10	0.15	87.12		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Jigyaasa center of music and art rd		2	102.00	1.10	0.15	33.66		
United residents Association upto Kumepu park		2	310.00	1.40	0.15	130.20		
Kitchen 6 rd		1	637.00	1.10	0.15	105.11		
For RCC CULVERT								
Indra Cateen rd		3	6.00	1.40	0.15	3.78		
Bhagyalakshmi Bar rd		9	6.00	1.40	0.15	11.34		
United residents Association upto Kumepu park		7	6.50	1.40	0.15	9.56		
Kitchen 6 rd		10	5.50	1.40	0.15	11.55		
Yelahanka 5th Phase								
For RCC DRAIN								
Bramhaputra Appartment Rd		1	126.00	1.40	0.15	26.46		
Bus stop surrounding Cross rd-1		1	114.00	1.10	0.15	18.81		
Cross rd-2		1	140.00	1.10	0.15	23.10		
Cross rd-3		2	392.00	1.40	0.15	164.64		
Cross rd-4		2	170.00	1.10	0.15	56.10		
Cross rd-5		2	120.00	1.10	0.15	39.60		
Sangmesh Enterprises Xerox rd		2	118.00	1.40	0.15	49.56		
For RCC CULVERT		5	5.50	1.40	0.15	5.78		
For Footpath								
Yelahanka 4th Phase								
Indra Cateen rd		1	396.00	1.00	0.125	49.50		
Bhagyalakshmi Bar rd(After balamuri vinayaka temple)		2	170.00	1.50	0.125	63.75		
United residents Association upto Kumepu park		2	310.00	1.20	0.125	93.00		
Yelahanka 5th Phase								
Bramhaputra Appartment Rd		1	126.00	2.50	0.125	39.38		
For KERB								
Yelahanka 4th Phase								
Indra Cateen rd		1	465.00	0.20	0.10	9.30		
Bhagyalakshmi Bar rd		2	237.00	0.20	0.10	9.48		
Jigyaasa center of music and art rd		2	102.00	0.20	0.10	4.08		
United residents Association upto Kumepu park		2	310.00	0.20	0.10	12.40		
Kitchen 6 rd		1	637.00	0.20	0.10	12.74		
Bramhaputra Appartment Rd		1	126.00	0.20	0.10	2.52		
Yelahanka 5th Phase								

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Bus stop surrounding Cross rd-1		1	114.00	0.20	0.10	2.28		
Cross rd-2		1	140.00	0.20	0.10	2.80		
Cross rd-3		2	392.00	0.20	0.10	15.68		
Cross rd-4		2	170.00	0.20	0.10	6.80		
Cross rd-5		2	120.00	0.20	0.10	4.80		
Sangmesh Enterprises Xerox rd		2	118.00	0.20	0.10	4.72		
						1186.31	**5680.61**	**6738938.51**
KSRRB M2200-6. Providing **TMT Bars Fe 500 steel reinforcement** for R.C.C. work including straightening, cutting, bending, hooking, placing in postion, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.(I.NO 28.8.2 Page no 229, SR 2018-19)								
Basic rate	75610.00							
Area Weightage 6%	4536.60							
Total	**80146.6**							
Consider 60kg/cum for drain		1	1731.69		0.06	103.90		
Consider 90kg/cum for culvert		1	105.52		0.09	9.50		
						113.40	**80146.60**	**9088494.60**
Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
Basic rate	6670.00							
6*55.47	332.82	Issue Pate						
Sub total	7002.82							
6% Area weightage	420.17							
Total	**7422.99**							
	Cum							
Yelahanka 4th Phase								
For RCC DRAIN RAFT								
Indra Cateen rd		1	465.00	0.90	0.15	62.78		
Bhagyalakshmi Bar rd		2	264.00	0.90	0.15	71.28		
Jigyaasa center of music and art rd		2	102.00	0.90	0.15	27.54		
United residents Association upto Kumepu park		2	310.00	1.20	0.15	111.60		
Kitchen 6 rd		1	637.00	0.90	0.15	86.00		
Yelahanka 5th Phase								
Bramhaputra Appartment Rd		1	126.00	1.20	0.15	22.68		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Bus stop surrounding Cross rd-1		1	114.00	0.90	0.15	15.39		
Cross rd-2		1	140.00	0.90	0.15	18.90		
Cross rd-3		2	392.00	1.20	0.15	141.12		
Cross rd-4		2	170.00	0.90	0.15	45.90		
Cross rd-5		2	120.00	1.20	0.15	43.20		
Sangmesh Enterprises Xerox rd		2	118.00	1.20	0.15	42.48		
For RCC DRAIN WALL								
Indra Cateen rd		2	465.00	0.15	0.60	83.70		
Bhagyalakshmi Bar rd		4	264.00	0.15	0.60	95.04		
Jigyaasa center of music and art rd		4	102.00	0.15	0.60	36.72		
United residents Association upto Kumepu park		4	310.00	0.15	0.90	167.40		
Kitchen 6 rd		2	637.00	0.15	0.90	171.99		
Yelahanka 5th Phase								
Bramhaputra Appartment Rd		2	126.00	0.15	0.90	34.02		
Bus stop surrounding Cross rd-1		2	114.00	0.15	0.80	27.36		
Cross rd-2		2	140.00	0.15	0.60	25.20		
Cross rd-3		4	392.00	0.15	0.90	211.68		
Cross rd-4		4	170.00	0.15	0.60	61.20		
Cross rd-5		4	120.00	0.15	0.90	64.80		
Sangmesh Enterprises Xerox rd		4	118.00	0.15	0.90	63.72		
For RCC CULVERT RAFT								
Yelahanka 4th Phase								
Indra Cateen rd		3	6.00	1.20	0.20	4.32		
Bhagyalakshmi Bar rd		9	6.50	1.20	0.20	14.04		
United residents Association upto Kumepu park		7	6.50	1.20	0.20	10.92		
Kitchen 6 rd		10	5.50	1.20	0.20	13.20		
Yelahanka 5th Phase								
		5	5.50	1.20	0.20	6.60		
For RCC CULVERT WALL								
Yelahanka 4th Phase								
Indra Cateen rd		6	6.00	0.23	0.60	4.97		
Bhagyalakshmi Bar rd		18	6.50	0.23	0.60	16.15		
United residents Association upto Kumepu park		14	6.50	0.23	0.60	12.56		
Kitchen 6 rd		20	5.50	0.23	0.60	15.18		
Yelahanka 5th Phase								
		10	5.50	0.23	0.60	7.59		
						1837.21	**7422.99**	**13637604.83**

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
Data rate	2337.00							
	Sqm							
For RCC DRAIN COVERING SLAB								
Yelahanka 4th Phase								
Indra Cateen rd		1	465.00	0.90		418.50		
Bhagyalakshmi Bar rd		2	264.00	0.90		475.20		
Jigyaasa center of music and art rd		2	102.00	0.90		183.60		
United residents Association upto Kumepu park		2	310.00	1.20		744.00		
Kitchen 6 rd		1	637.00	0.90		573.30		
						2394.60		
			Consider 50%			1197.30		
Shoulder Drain								
Indra Cateen rd		12	1.50	0.60		10.80		
Bhagyalakshmi Bar rd(After balamuri vinayaka temple)		10	2.00	0.60		12.00		
United residents Association upto Kumepu park		18	1.70	0.60		18.36		
						41.16		
						1238.46		
Yelahanka 5th Phase								
Bramhaputra Appartment Rd		1	126.00	1.20		151.20		
Bus stop surrounding Cross rd-1		1	114.00	0.90		102.60		
Cross rd-2		1	140.00	0.90		126.00		
Cross rd-3		2	392.00	1.20		940.80		
Cross rd-4		2	170.00	0.90		306.00		
Cross rd-5		2	120.00	1.20		288.00		
Sangmesh Enterprises Xerox rd		2	118.00	1.20		283.20		
						2197.80		
			Consider 60%			1318.68		
Shoulder Drain								
Bramhaputra Appartment Rd		5	3.00	0.60		9.00		
						1327.68		
						2566.14	2337.00	5997069.18
KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13 (P.No-26, I No-5.18)								
Basic Rate	1495.00							

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Area Weightage 6%	89.70							
		1584.70							
		Sqm							
	Yelahanka 4th Phase								
	Front of house								
	Yelahanka 5th Phase			Consider 50%			1197.30		
	Front of house						2197.80		
				Consider 40%			879.12		
							2076.42	1584.70	3290502.77
	Providing and fixing RCC **precast cover slab of 250mm thick** for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	5418.00							
		Sqm							
	For RCC CULVERT COVERING SLAB								
	Yelahanka 4th Phase								
	Indra Cateen rd		3	6.00	1.20		21.60		
	Bhagyalakshmi Bar rd		9	6.50	1.20		70.20		
	United residents Association upto Kumepu park		7	6.50	1.20		54.60		
	Kitchen 6 rd		10	5.50	1.20		66.00		
	Yelahanka 5th Phase								
			5	5.50	1.20		33.00		
							245.40	5418.00	1329577.20
	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. (I No-5.30,P No-27 of PWD BCSR 2018-19)								
	Basic rate	408.00							
	Area Weightage 6%	24.48							
	Total	432.48							
		Nos							
	For KERB								
	Yelahanka 4th Phase						465.00		
	Indra Cateen rd		1	465.00			528.00		
	Bhagyalakshmi Bar rd		2	264.00			204.00		
	Jigyaasa center of music and art rd		2	102.00			620.00		
	United residents Association upto Kumepu park		2	310.00			637.00		
	Kitchen 6 rd		1	637.00					
	Yelahanka 5th Phase						126.00		
	Bramhaputra Appartment Rd		1	126.00					

Sl	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Bus stop surrounding Cross rd-1		1	114.00			114.00		
	Cross rd-2		1	140.00			140.00		
	Cross rd-3		2	392.00			784.00		
	Cross rd-4		2	170.00			340.00		
	Cross rd-5		2	120.00			240.00		
	Sangmesh Enterprises Xerox rd		2	118.00			236.00		
							4434.00		
							9853.00	432.48	4261225.44
10	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	Basic rate	80.00							
	Area Weightage 6%	4.80							
	Total	84.80							
		Sqm							
	Yelahanka 4th Phase								
	Indra Cateen rd		1	465.00	0.30		139.50		
	Bhagyalakshmi Bar rd		2	264.00	0.30		158.40		
	Jigyaasa center of music and art rd		2	102.00	0.30		61.20		
	United residents Association upto Kumepu park		2	310.00	0.30		186.00		
	Kitchen 6 rd		1	637.00	0.30		191.10		
	Yelahanka 5th Phase								
	Bramhaputra Appartment Rd		1	126.00	0.30		37.80		
	Bus stop surrounding Cross rd-1		1	114.00	0.30		34.20		
	Cross rd-2		1	140.00	0.30		42.00		
	Cross rd-3		2	392.00	0.30		235.20		
	Cross rd-4		2	170.00	0.30		102.00		
	Cross rd-5		2	120.00	0.30		72.00		
	Sangmesh Enterprises Xerox rd		2	118.00	0.30		70.80		
							1330.20	84.80	112800.96
	KSRRB M300-14 Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301 (P.No-143, I No-19.14)								
	Basic rate	41.00							
	Area Weightage 6%	2.46							
	Lead 8KM	20.48							
	Total	63.94							
		Cum							
	Yelahanka 4th Phase								
	Bhagyalakshmi Bar rd		2	318.00	0.90	0.30	171.72		

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Yelahanka 5th Phase								
	Sangmesh Enterprises Xerox rd		2	118.00	0.85	0.25	50.15		
							221.87	63.94	14,186.37
	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	**1994.92**							
		Cum							
	Yelahanka 4th Phase								
	Bhagyalakshmi Bar rd		2	318.00	0.90	0.15	85.86		
	Yelahanka 5th Phase								
	Sangmesh Enterprises Xerox rd		2	118.00	0.85	0.15	30.09		
							115.95	1994.92	231310.97
	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
		Cum							
	Yelahanka 4th Phase								
	Bhagyalakshmi Bar rd(After balamuri vinayaka temple)		2	318.00	0.90	0.225	128.79		
	Yelahanka 5th Phase								
	Sangmesh Enterprises Xerox rd		2	118.00	0.85	0.225	45.14		
							173.93	2001.28	348072.62
	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6),								
	Basic rate	32.00							
	Area Weightage 6%	1.92							
	Total	**33.92**							
		Sqm							
	Yelahanka 4th Phase						572.40		
	Bhagyalakshmi Bar rd		2	318.00	0.90				
	Yelahanka 5th Phase								

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Sangmesh Enterprises Xerox rd		2	118.00	0.85		200.60		
						773.00	33.92	26,220.16
KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. (P.No-158,I No-21.2),								
Basic Rate	5.00							
Area Weightage 6%	0.30							
	5.30							
	Sqm							
Yelahanka 4th Phase								
BC Area						3270.00		
WMM Area						773.00		
						2497.00	5.30	13,234.10
KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
Basic rate	6880.00							
Area Weightage 6%	412.80							
Total	7292.80							
	Cum							
Yelahanka 4th Phase								
Bhagyalakshmi Bar rd		2	318.00	0.90	0.05	28.62		
Yelahanka 5th Phase								
Sangmesh Enterprises Xerox rd		2	118.00	0.85	0.05	10.03		
						38.65	7292.80	281866.72
KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7) P. NO - 158								
Basic rate	12.00							
Area Weightage 6%	0.72							
Total	12.72							
	Sqm							
Yelahanka 4th Phase						2385.00		
Bhagyalakshmi Bar rd		1	318.00	7.50				
Yelahanka 5th Phase						885.00		
Sangmesh Enterprises Xerox rd		1	118.00	7.50				
						3270.00	12.72	41,594.40

Description of	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12)								
Basic rate	8061.00							
Area Weightage 6%	483.66							
Total	**8544.66**							
	Cum							
Yelahanka 4th Phase								
Bhagyalakshmi Bar rd		1	318.00	7.50	0.04	95.40		
Yelahanka 5th Phase								
Sangmesh Enterprises Xerox rd		1	118.00	7.50	0.04	35.40		
						130.80	8544.66	1117641.53
KSRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
Basic rate	429.00							
Area Weightage 6%	25.74							
Total	**454.74**							
	Sqm							
Yelahanka 4th Phase								
Bhagyalakshmi Bar rd		2.5	318.00	0.10		79.50		
Yelahanka 5th Phase								
Sangmesh Enterprises Xerox rd		2	118.00	0.10		23.60		
						103.10	454.74	46,883.69
KSRRB M800-35. **Supply and Installtion of Moulded Shank Raised Pavement Markers** made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)								
Basic rate	337.00							
Area Weightage 6%	20.22							
Total	**357.22**							
	Nos							
Yelahanka 4th								

Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Bhagyalakshmi Bar rd		3	45.00			135.00		
						135.00	357.22	48,224.70

CRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 43kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)

Basic rate	5422.00							
6% AW	325.32							
Sub Total	5747.32							
Tree Guards	Cum							
Velahanka 4th Phase								
For P.C.C								
Indra Cateen rd		13	5.50	0.20	0.15	10.73		
Bhagyalakshmi Bar rd(After Kalamuri vinayaka temple)		12	5.50	0.20	0.15	9.90		
United residents Association upto Kumepu park		20	5.50	0.20	0.15	16.50		
Velahanka 5th Phase								
Brahmaputra Appartment Rd		5	5.50	0.20	0.15	4.13		
Velahanka 4th Phase								
Shoulder Drain Bed								
Indra Cateen rd		12	1.50	0.60	0.15	2.70		
Bhagyalakshmi Bar rd(After Kalamuri vinayaka temple)		10	2.00	0.60	0.15	3.00		
United residents Association upto Kumepu park		18	1.70	0.60	0.15	4.59		
Velahanka 5th Phase								
Brahmaputra Appartment Rd		5	3.00	0.60	0.15	2.25		
Shoulder Drain Coping								
Indra Cateen rd		12	3.00	0.20	0.08	2.88		
Bhagyalakshmi Bar rd(After Kalamuri vinayaka temple)		10	4.00	0.20	0.08	3.20		
United residents Association upto Kumepu park		18	3.40	0.20	0.08	4.90		
Velahanka 5th Phase								
Brahmaputra Appartment Rd		5	6.00	0.20	0.08	2.40		
						67.17	5747.32	386024.50

Description		No	Length	Width	Depth	Quantity	Rate	Amount
CSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 I.No.5.26.2, Page no 27								
Basic rate	924.00		962					
Area Weightage 6%	55.44							
Total	**979.44**							
	Sqm							
Velahanka 4th Phase								
Tree Guards								
Indra Cateen rd		13	5.50		0.20	14.30		
Bhagyalakshmi Bar rd(After Balamuri vinayaka temple)		12	5.50		0.20	13.20		
United residents Association upto Kumepu park		20	5.50		0.20	22.00		
Shoulder Drain								
Indra Cateen rd		12	3.00		0.20	7.20		
Bhagyalakshmi Bar rd(After Balamuri vinayaka temple)		10	4.00		0.20	8.00		
United residents Association upto Kumepu park		18	3.40		0.20	12.24		
Velahanka 5th Phase								
Tree Guards								
Brahmaputra Appartment Rd		5	5.50		0.20	5.50		
Shoulder Drain								
Brahmaputra Appartment Rd		5	6.00		0.20	6.00		
						88.44	979.44	86621.67
CSRB 14.6 : Providing and laying **heavy duty cobble stones** interlock pavers, 60mm thick using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS (P.No-103,I No-14.6 of PWD BCSR 2018-19), 60mm thick								
Basic rate	1053.00							
Area Weightage 6%	63.18							
Total	**1116.18**							
	Sqm							
Velahanka 4th Phase								
For Footpath								
Indra Cateen rd		1	396.00	1.00		396.00		

Description	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Bhagyalakshmi Bar rd(After Balamuri vinayaka temple)		2	170.00	1.50		510.00		
United residents Association upto Kumepu park		2	310.00	1.20		744.00		
Deduct Tree Guards								
Indra Cateen rd		-13	1.00	1.00		-13.00		
Bhagyalakshmi Bar rd(After Balamuri vinayaka temple)		-12	1.00	1.00		-12.00		
United residents Association upto Kumepu park		-20	1.00	1.00		-20.00		
Shoulder Drain								
Indra Cateen rd		-12	1.50	0.60		-10.80		
Bhagyalakshmi Bar rd(After Balamuri vinayaka temple)		-10	2.00	0.60		-12.00		
United residents Association upto Kumepu park		-18	1.70	0.60		-18.36		
Yelahanka 5th Phase								
For Footpath								
Bramhaputra Appartment Rd		1	126.00	2.50		315.00		
Deduct Tree Guards								
Bramhaputra Appartment Rd		-5	1.00	1.00		-5.00		
Shoulder Drain Bed								
Bramhaputra Appartment Rd		-5	3.00	0.60		-9.00		
						1864.84	1116.18	2081497.11

Supply and fixing of **Retro Reflective Single Arrow Road Name Signboard** of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender (P.No-103,I No-24.59 of PWD BCSR 2018-19). P-190, INO-24.59

Basic rate	13297.00							
Area Weightage 6%	797.82							
Total	**14094.82**							
	Sqm					2.88		
Yelahanka 5th Phase		2	1.60	0.90		2.88	14094.82	40,593.08

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
							Total Construction Cost	50278863.38
							Towards GST 12%	6033463.61
							Towards Tender Premium 5%	2513943.17
							DPR & PMC Charges 2%	1173000.00
							Sub Total	59999270.16
							Miscellaneous & Rounding Off	729.84
							Total	60000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 01-01-2021 and Data Rates

Assistant Engineer
Ward 03
BBMP Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Technical Sanction
Accn RS 600 Lakhs only
Head P 3075
CER NO 05 Dt. 15.04.2021
TA
CE (YNK)

Administrative Sanction for Rs. 600.00.....
six crores only.....
.....
is accorded under head P-3.07.5.....
Special comprehensive development works.....
Registered as CE No. 05..... Subject
to conditions contained in enclosed memo
No EE/YNK AS/05/2021-22 dt. 06.8.2021

Executive Engineer